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ABSTRACT

An instructor's manual and student activity guide on the operating room technician are provided in this set of prevocational education materials which focuses on the vocational area of health occupations. (This set of materials is one of ninety-two prevocational education sets arranged around a cluster of seven vocational offerings: agriculture, home economics, distributive education, health occupations, world of work, trade and industry, and office occupations.) The instructor's guide is organized into the following elements: title of activity, duration of activity (two to five periods), activity goals, eight instructional objectives, and activity implementation (description, materials needed, safety considerations, teacher preparation prior to class, during the class, follow-up activities, and a question sheet to be duplicated). The student activity guide provides step-by-step instructions (narrative and illustrations) for completing each instructional objective (e.g., put on a pair of gloves without touching the outside of the gloves). At the end of each set of instructions is a student check point (evaluation activity). An occupational description for a surgical technician concludes the document. (JH)

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ED169352

HEALTH OCCUPATIONS - OPERATING ROOM TECHNICIAN

Kit No. 63

INSTRUCTOR'S MANUAL

Prepared by

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State Department of Education
Office of Vocational Education
Prevocational Education
Columbia, South Carolina 29201

In Cooperation With

Vocational Education Media Center
Clemson University
Clemson, South Carolina 29631

1978

CE 020 537

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NATIONAL INSTITUTE OF EDUCATION

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TITLE OF ACTIVITY

Kit No. 63 - Health Occupations - Operating Room Technician

DURATION

Main Activity - 1 - 2 periods
Follow-up Activity - 1-3 periods

GOALS

The student will understand the procedure for wrapping and unwrapping sterile packages.

The student will learn the method used in putting on sterile gloves.

The student will learn the technique for handling thumb forceps.

INSTRUCTIONAL OBJECTIVES

The student will wrap a pair of gloves in a 20 inch x 20 inch (50.8 cm) piece of muslin.

The student will wrap thumb forceps in a 12 inch x 12 inch (30.48 cm) piece of muslin.

The student will unwrap a pair of gloves without touching the inside of the muslin.

The student will unwrap the thumb forceps without touching the inside of the muslin.

The student will put on a pair of gloves without touching the outside of the gloves.

With gloves on, the student will pick up a cotton ball using the thumb forceps.

The student will wipe an area of another student's arm with the cotton ball.

The student will remove the gloves.

VOCATIONAL CLUSTERS

None

ACTIVITY IMPLEMENTATION

A. Description

This activity introduces the student to some of the frequent tasks that an operating room technician performs. The student will learn how to wrap and unwrap sterile objects, put on sterile gloves, and handle thumb forceps while wearing gloves.

B. Safety

Be careful not to get baby powder in eyes.

C. Materials Required

1. Audio Visual Equipment
   None

2. Technical Equipment
   25 pairs of gloves
   25 pieces muslin 20 inches x 20 inches (50.8 cm)
   25 thumb forceps
   25 pieces muslin 12 inches x 12 inches (30.48 cm)

3. Expendable Materials
   50 cotton balls
   1 roll masking tape
   1 small can of baby powder

D. Preparation Prior To Class

Look over student learning activity guide.

At each station, place the following items:

1 pair gloves
1 set thumb forceps
1 piece muslin 20 inches x 20 inches (50.8 cm)
1 piece muslin 12 inches x 12 inches (30.48 cm)
2 6-inch (15.24 cm) pieces of masking tape
1 Student Learning Activity Guide
2 cotton balls

E. During Class Session

INTRODUCTION - The operating room technician has an exciting career. That is where the action is in a hospital. The operating room technician works alongside doctors and plays a very important role in the life-saving techniques of the operating room. Along with this glamour, though, are duties which are not so exciting; for example, the operating room technician is

on call nights and weekends and must also do such tasks as taking specimens to the lab, cleaning the operating room after surgery, and taking patients to and from surgery.

In this activity you will perform some of the tasks of an operating room technician. You will learn how to wrap items for sterilization, how to handle these items after sterilization, and how to work with gloves on.

F. Follow-up Activities

Have students complete a VIEW Fact Sheet.

Visit a facility that utilizes operating room technicians; for example, hospitals, clinics, and some industrial plants.

Check the want ads for operating room technicians.

Interview an operating room technician.

Do reports on new techniques and equipment used in surgery.

ANSWER KEY

None

MASTERS FOR DUPLICATION

VIEW Fact Sheet

VIEW FACT SHEET

NAME _____ CLASS _____ OCCUPATION _____

A. List the advantages (good points) of this occupation (job).

B. List the disadvantages (bad points) of this occupation (job).

C. List three things you should know to do this occupation (job).
1.
2.
3.

D. What type of education should you get to be prepared (do) for this occupation (job)?

E. What courses must you take to go into this occupation (job)?

F. What do you think your future in this occupation (job) will be?

G. What wage can you expect in this occupation (job)?

H. What are the working hours of this occupation (job)?

I. To learn more about this occupation (job), write to:

J. Using a scale of 1 to 5, circle the number that measures your interest in this occupation (job) as a possible career.

I don't like it. 1 2 3 4 5 I like it.

HEALTH OCCUPATIONS - OPERATING ROOM TECHNICIAN

Kit No. 63

STUDENT
LEARNING ACTIVITY GUIDE

Prepared by

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State Department of Education
Office of Vocational Education
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INTRODUCTION

The operating room technician has an exciting career. That is where the action is in a hospital. The operating room technician works alongside doctors and plays a very important role in the life-saving techniques of the operating room. Along with this glamour, though, are duties which are not so exciting; for example, the operating room technician is on call nights and weekends and must also do such tasks as taking specimens to the lab, cleaning the operating room after surgery, and taking patients to and from surgery.

In this activity you will perform some of the tasks of an operating room technician. You will learn how to wrap items for sterilization, how to handle these items after sterilization, and how to work with gloves on.

GOALS

The student will understand the procedure for wrapping and unwrapping sterile packages.

The student will learn the method used in putting on sterile gloves.

The student will learn the technique for handling thumb forceps.

DIRECTIONS

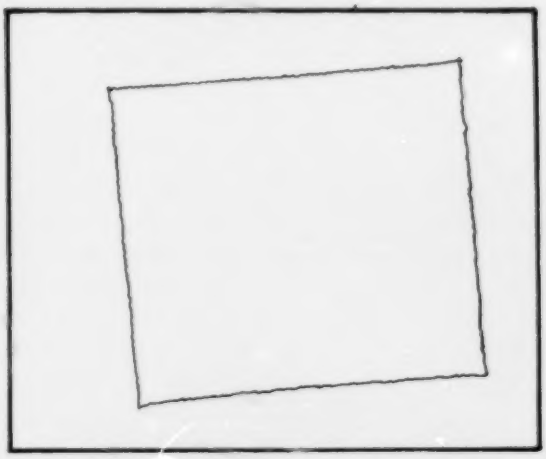
Start with the first objective and do the steps to complete the objective. Complete the checkpoint before going on to the next objective. If you are unable to complete the checkpoint, redo the steps and the checkpoint.

MATERIALS

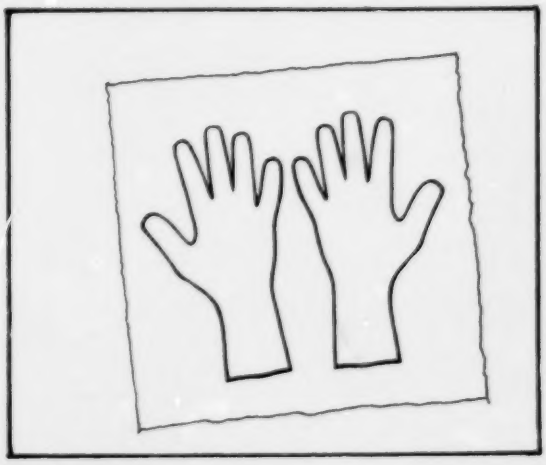
1 pair gloves
1 set thumb forceps
1 piece muslin 20 inches x 20 inches (50.8 cm)
1 piece muslin 12 inches x 12 inches (30.48 cm)
2 6-inch (15.24 cm) pieces of masking tape
1 Student Learning Activity Guide
2 cotton balls

Instructional Objective 1

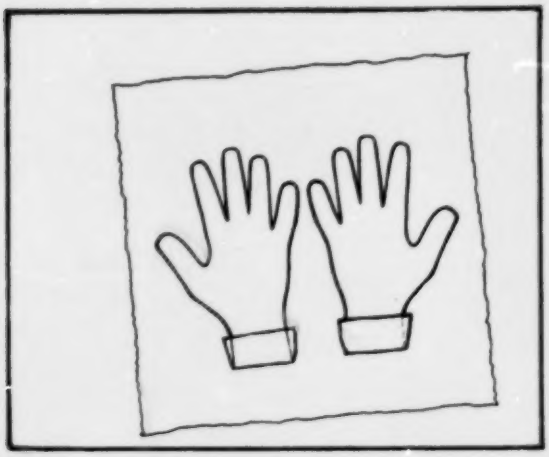
The student will wrap a pair of gloves in a 20 inch x 20 inch (50.8 cm) piece of muslin.



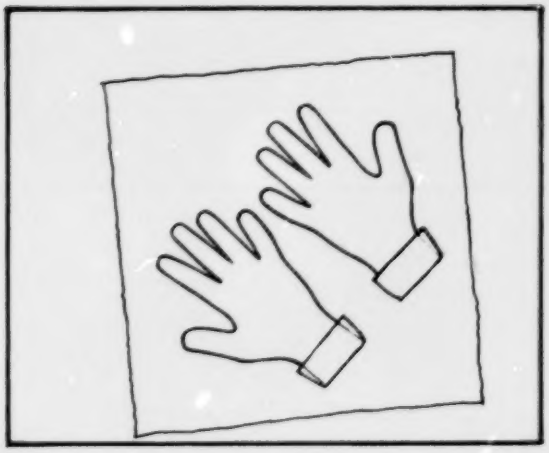
STEP 1 – Lay the large piece of muslin in front of you as shown in the picture.



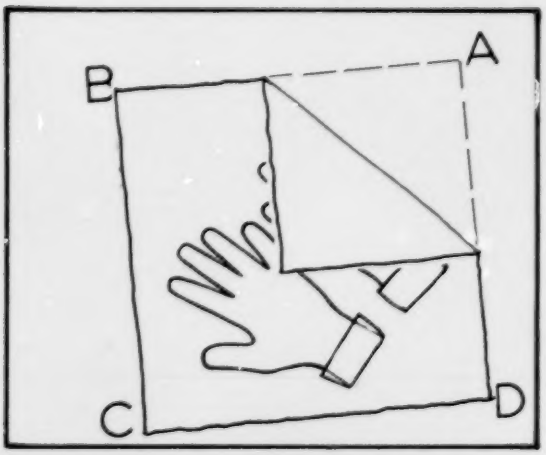
STEP 2 – Lay the gloves in the middle of the muslin, next to each other, with the palms facing upward and the thumbs toward the outside.



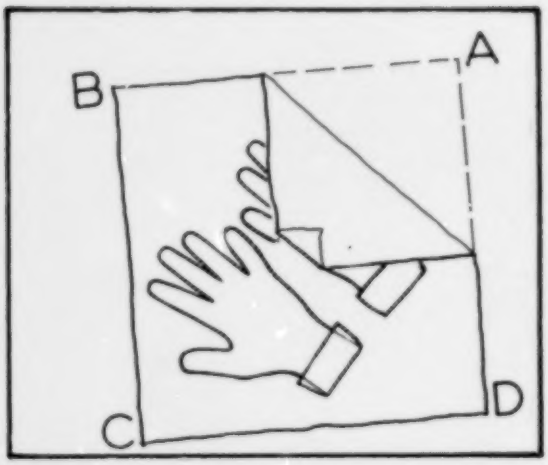
STEP 3 – Turn up 2 inch to 3 inch (5.08 cm to 7.62 cm) cuffs on the gloves.



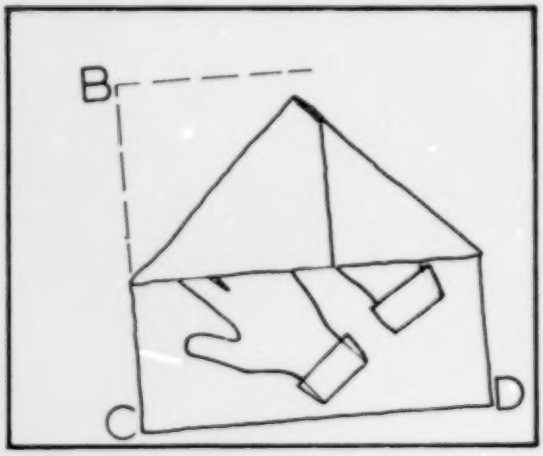
STEP 4 – Turn the gloves so that they are lying diagonally on the muslin.



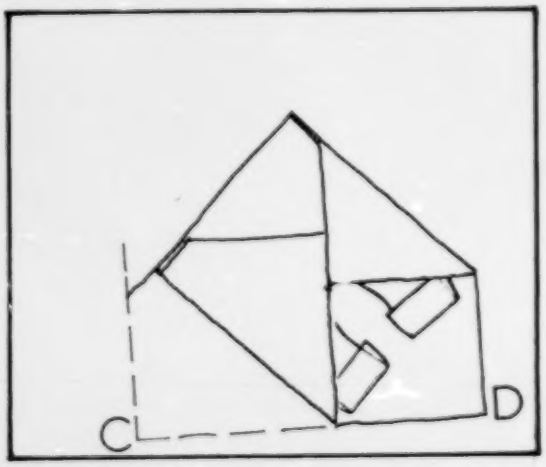
STEP 5 – Turn corner "A" down over the gloves.



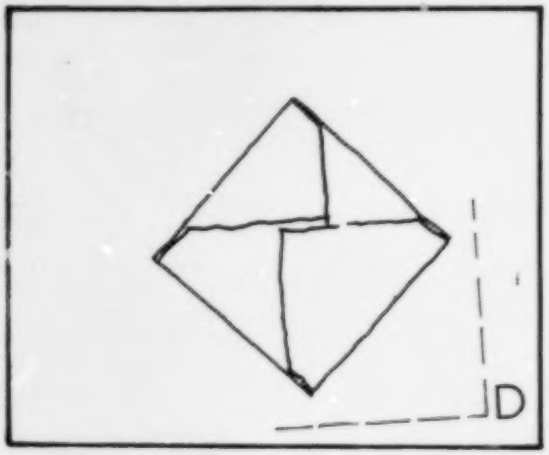
STEP 6 – Now turn the corner of "A" back about 1 inch to 2 inches (2.54 to 5.08 cm).



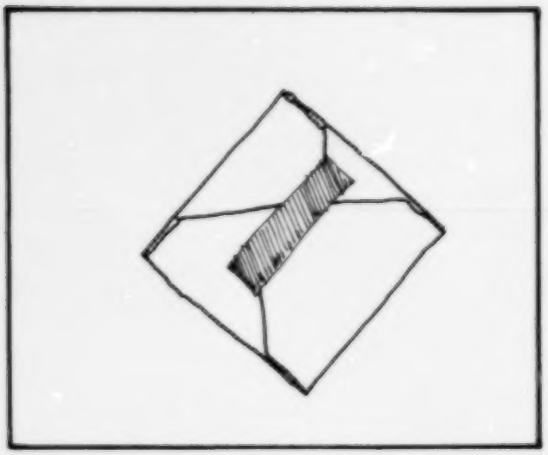
STEP 7 – Turn corner "B" down over the gloves.



STEP 8 – Turn corner "C" over the gloves.



STEP 9 – Turn corner "D" over the gloves.



STEP 10 – Place about 6 inches (15.24 cm) of masking tape over corner "D" to seal the wrapping.

Check Point

Did you turn the cuffs up on the gloves 2 inches to 3 inches (5.08 to 7.62 cm)?

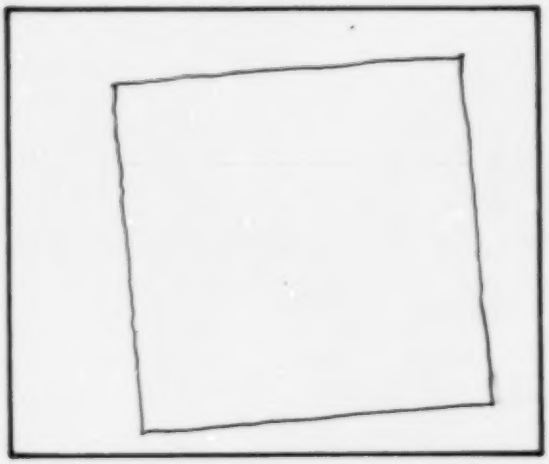
Did you lay the gloves diagonally on the muslin?

Did you fold the corners over the gloves as shown in the pictures?

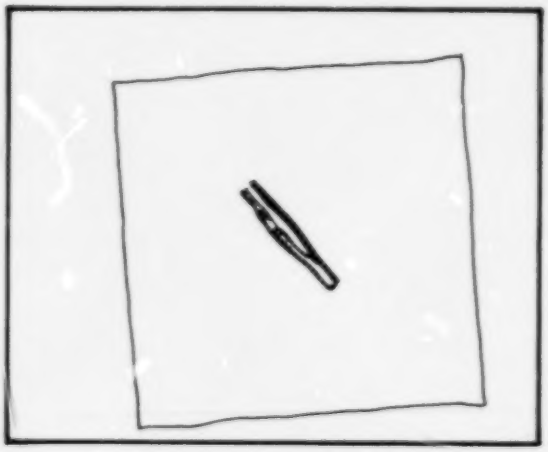
Did you tape corner "D" down with masking tape?

Instructional Objective II

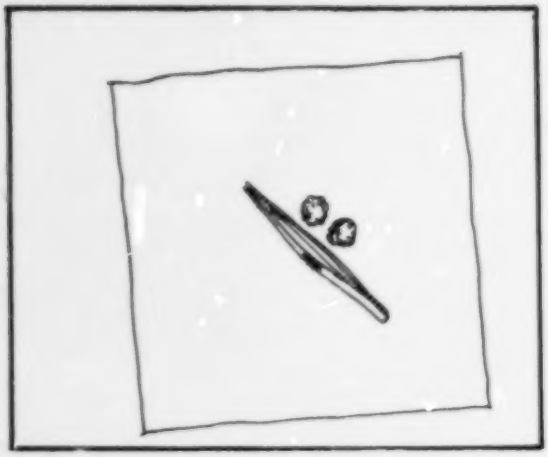
The student will wrap thumb forceps in a 12 inch x 12 inch (30.48 cm) piece of muslin.



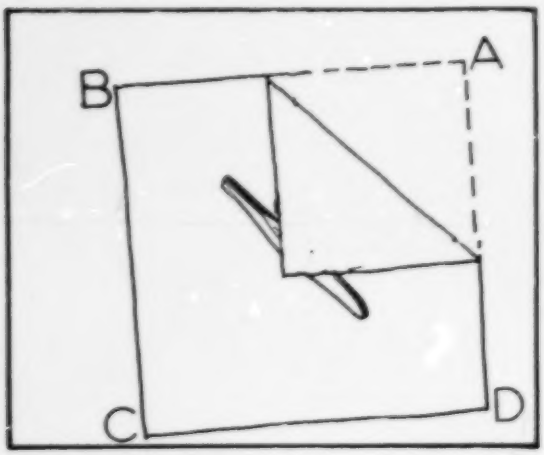
STEP 1 – Place the small piece of muslin in front of you as shown in the picture.



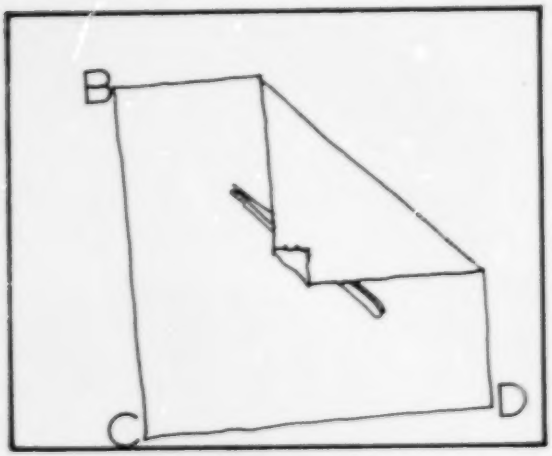
STEP 2 – Place the thumb forceps diagonally in the center of the muslin.



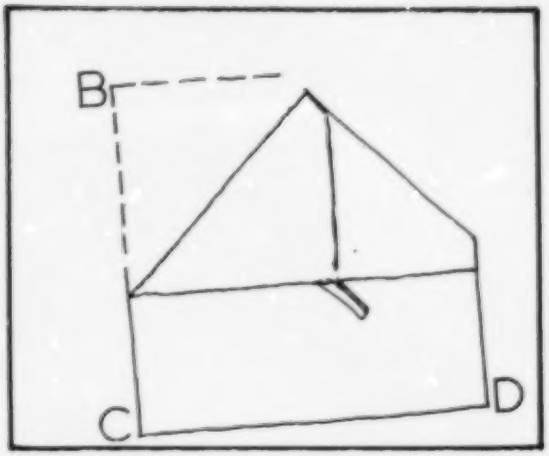
STEP 3 – Next to the thumb forceps, place two cotton balls.



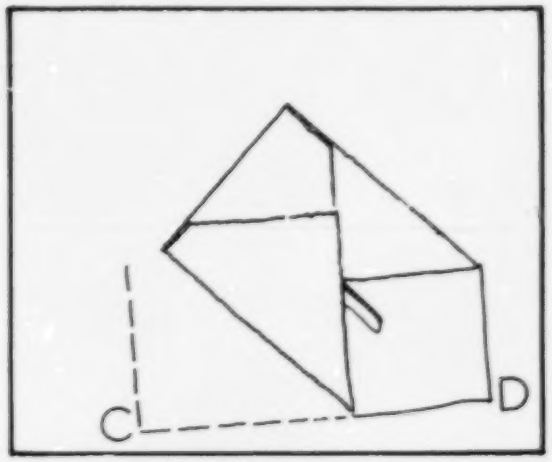
STEP 4 – Fold corner "A" over the thumb forceps.



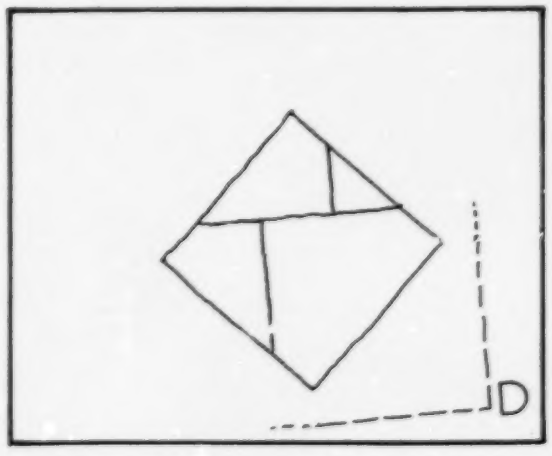
STEP 5 – Fold corner "A" back 1 inch to 2 inches (2.54 to 5.08 cm).



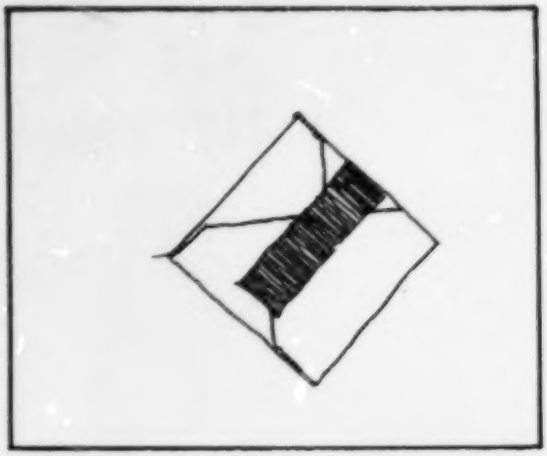
STEP 6 – Fold corner "B" over the forceps.



STEP 7 – Fold corner "C" over the forceps.



STEP 8 – Fold corner "D" over the forceps.



STEP 9 – Place about 6 inches (30.48 cm) of masking tape over corner "D" to seal the wrapping.

Check Point

Did you lay the thumb forceps diagonally on the muslin?

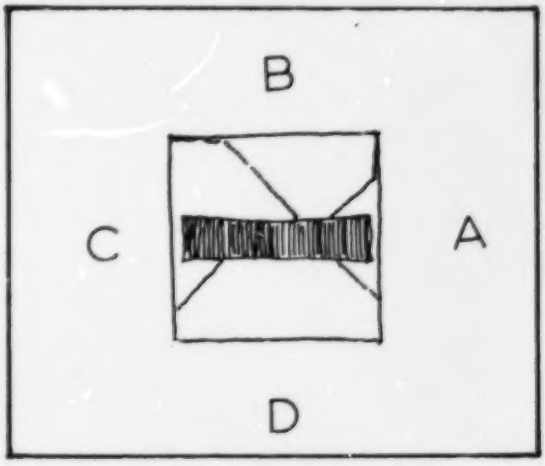
Did you place 2 cotton balls next to the forceps?

Did you fold the corners over the thumb forceps as shown in the pictures?

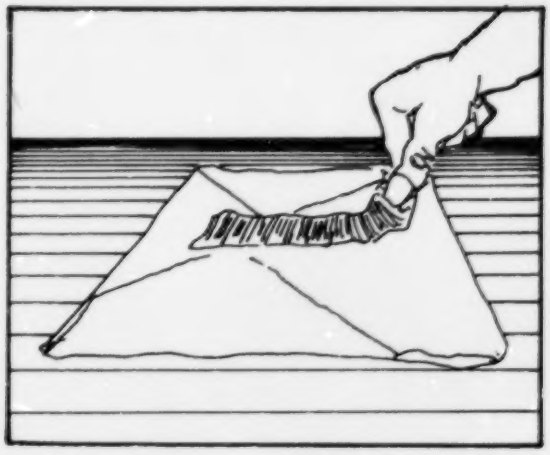
Did you tape corner "D" down with masking tape?

Instructional Objective III

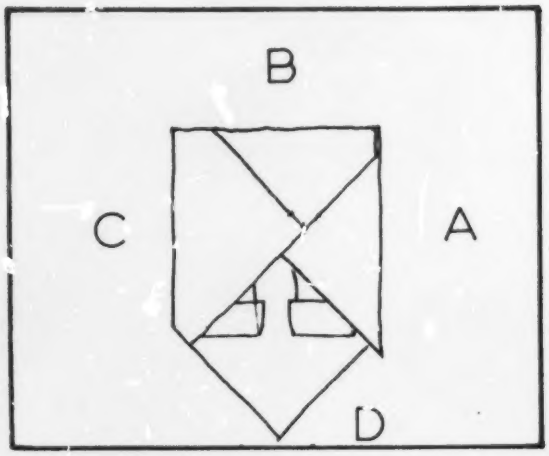
The student will unwrap a pair of gloves without touching the inside of the muslin.



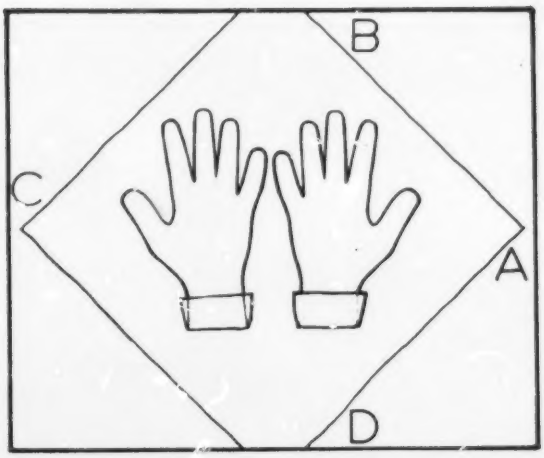
STEP 1 – Lay the package of gloves in front of you with flap "D" nearest your body.



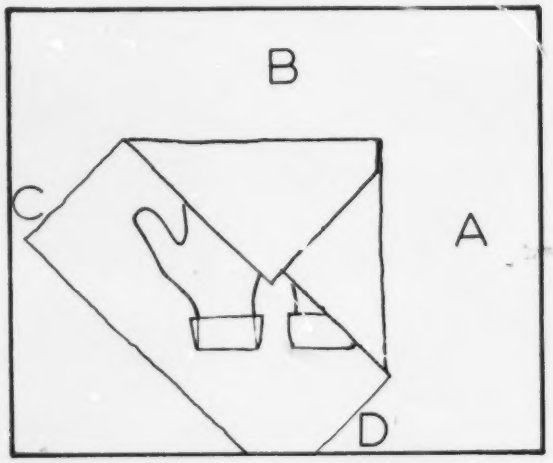
STEP 2 – Take off the masking tape and throw it in the trash can.



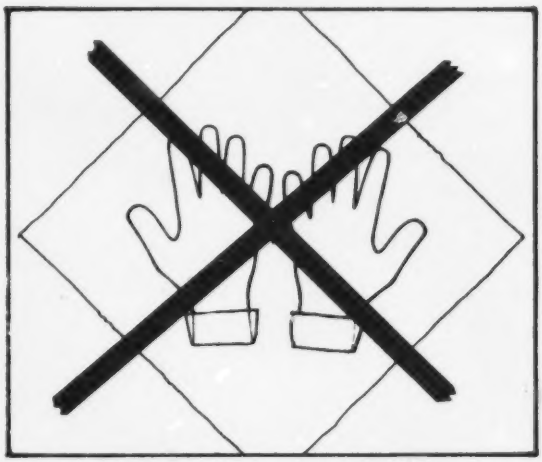
STEP 3 – Touching only the outside of flap "D," unfold it.



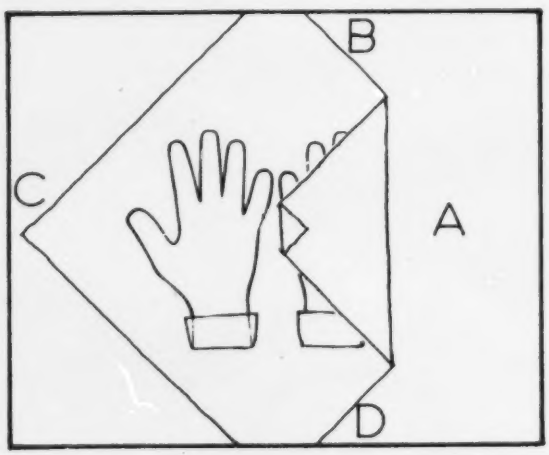
STEP 6 – Reach under the corner you folded back on flap "A" and open flap "A."



STEP 4 – Touching only the outside of flap "C," unfold it.



STEP 7 – Do not touch the gloves or any part of the muslin.



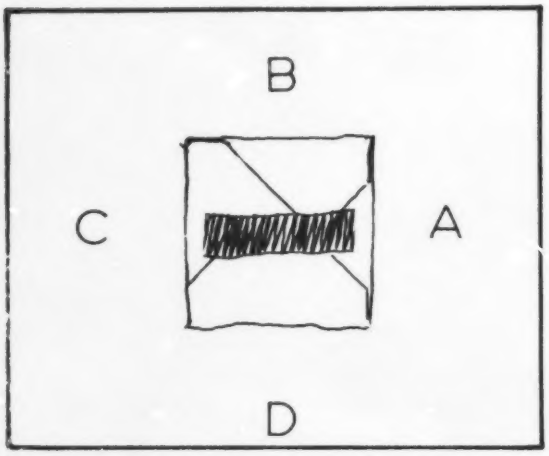
STEP 5 – Touching only the outside of flap "B," unfold it.

Check Point

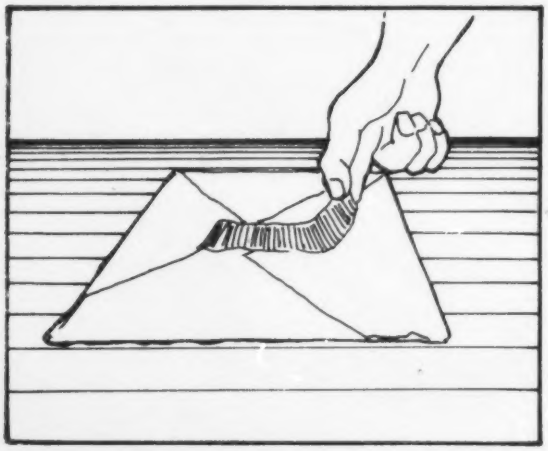
Did you open the package without touching the gloves or the inside of the package?

Instructional Objective IV

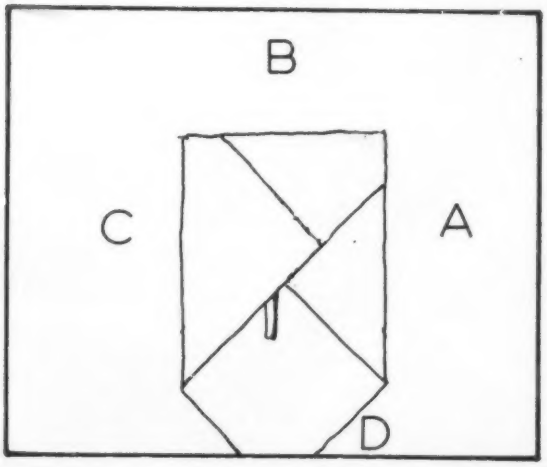
The student will unwrap the thumb forceps without touching the inside of the muslin.



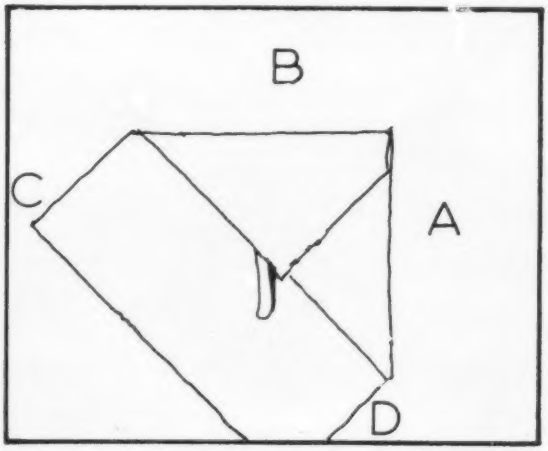
STEP 1 – Lay the package with the thumb forceps in front of you with flap "D" nearest your body.



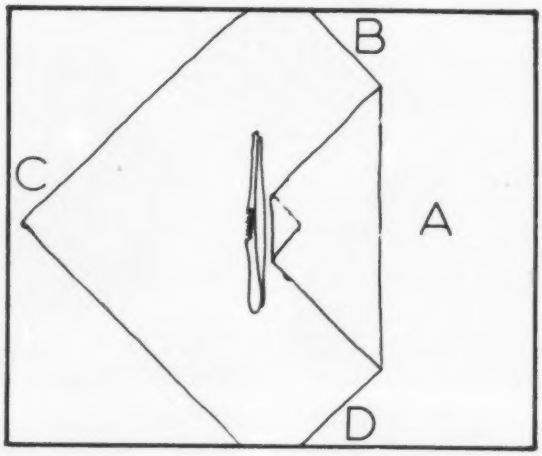
STEP 2 – Take off the masking tape and throw it in the trash can.



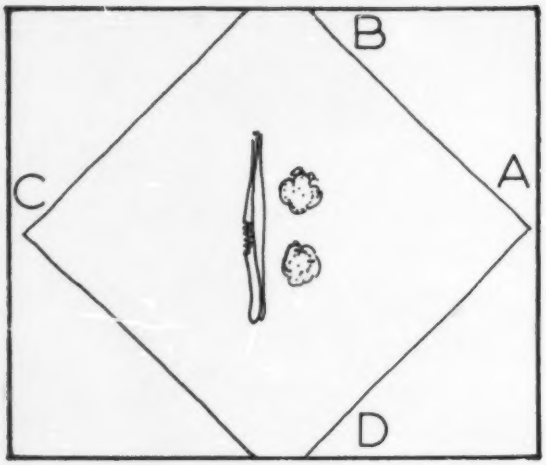
STEP 3 – Touching only the outside of flap "D," unfold it.



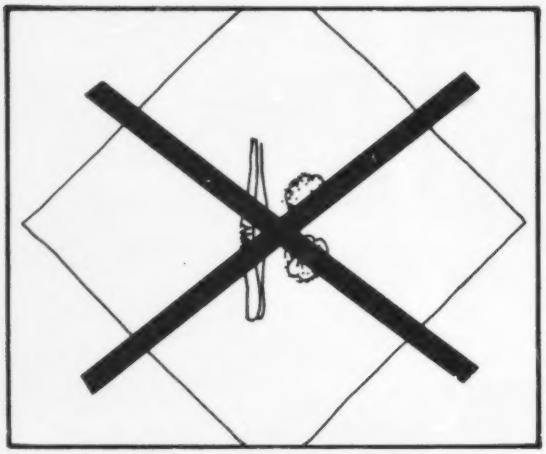
STEP 4 – Touching only the outside of flap "C," unfold it.



STEP 5 – Touching only the outside of flap "B," unfold it.



STEP 6 – Reach under the corner you folded back on flap "A" and open flap "A."



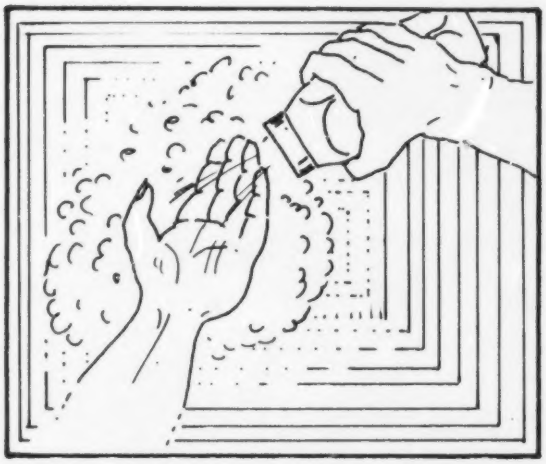
STEP 7 – Do not touch the thumb forceps, cotton, or any part of the muslin.

Check Point

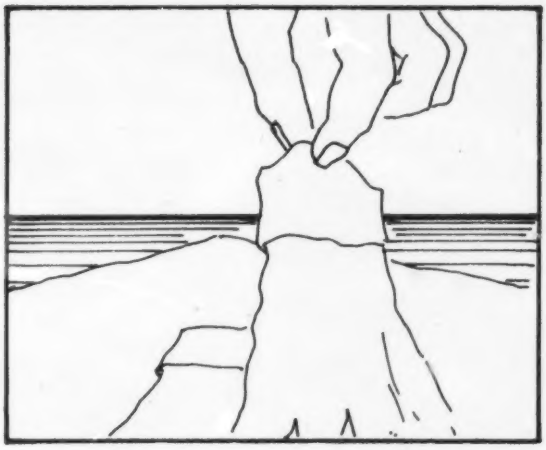
Did you open the package without touching the thumb forceps, cotton, or inside of the package?

Instructional Objective V

The student will put on a pair of gloves without touching the outside of the gloves.

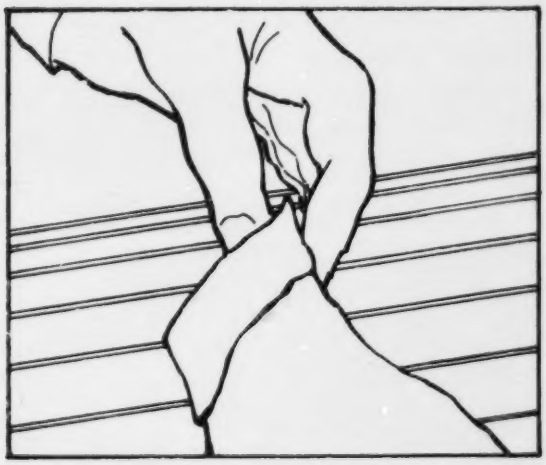


STEP 1 – Get the container of baby powder and sprinkle a small amount on your hands. Rub the powder on your hands. This will help you get the gloves on.

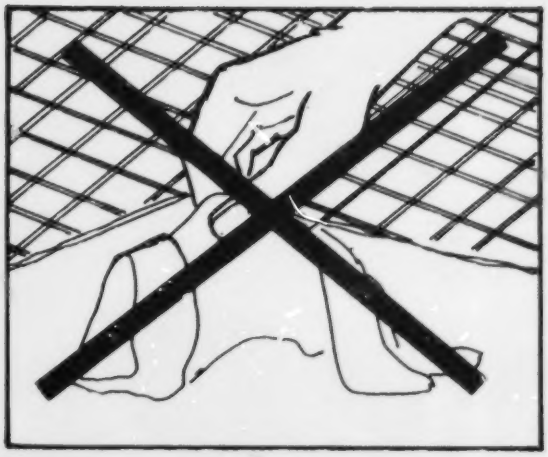


STEP 2 – Pick up the first glove by the cuff that was folded over. Do not touch the outside of the glove.

STEP 3 – Hold the cuff tightly with the fingers of one hand while you slip the other hand into the glove.



STEP 4 – Pick up the second glove with your gloved hand by placing your fingers under the cuff and pulling it on.



STEP 5 – Never touch the outside of the glove with your bare hands. The glove that is touched by bare hands is no longer sterile.

Check Point

Did you pick up the first glove by the cuff?

Did you pick up the second glove on the inside of the cuff?

Instructional Objective VI

With gloves on, the student will pick up a cotton ball, using the thumb forceps.

STEP 1 – Pick up the thumb forceps, using your thumb and your index finger.

STEP 2 – Place the points of the thumb forceps on a cotton ball and squeeze your thumb and index finger together to pick up the cotton ball.

Check Point

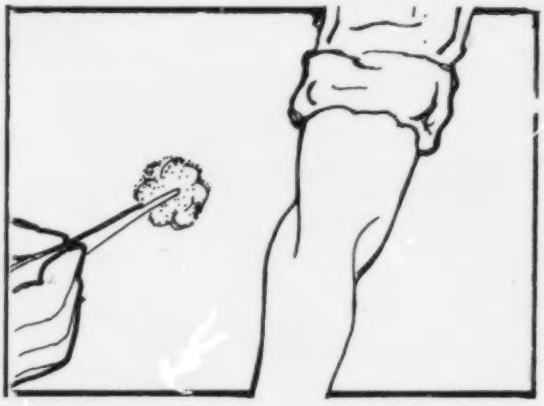
Did you pick up the thumb forceps with gloves on?

Were you able to pick up the cotton ball with the thumb forceps?

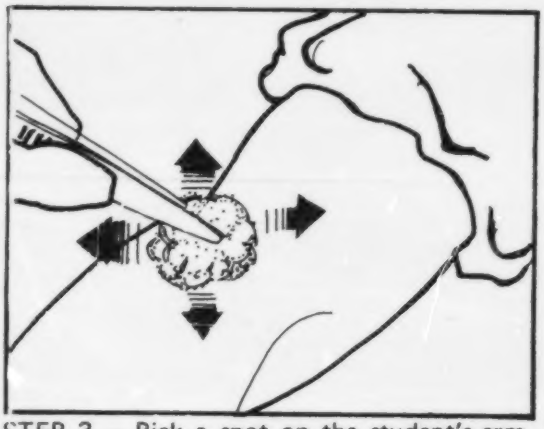
Instructional Objective VII

The student will wipe an area of another student's arm with the cotton ball.

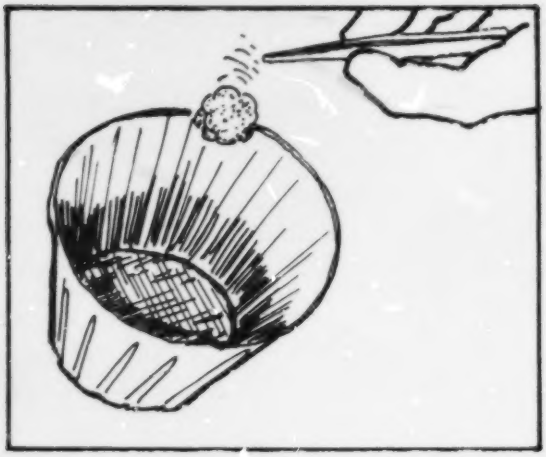
STEP 1 – Keep pressure on the cotton ball by holding the thumb forceps tightly.



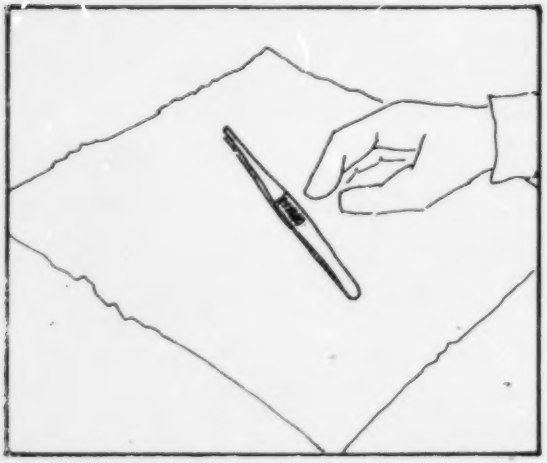
STEP 2 – Ask another student to expose his or her arm.



STEP 3 – Pick a spot on the student's arm and gently wipe it with the cotton ball.



STEP 4 – Now, throw out the cotton ball by opening the forceps over a trash can without dropping the forceps.



STEP 5 – Place the thumb forceps back on the piece of muslin.

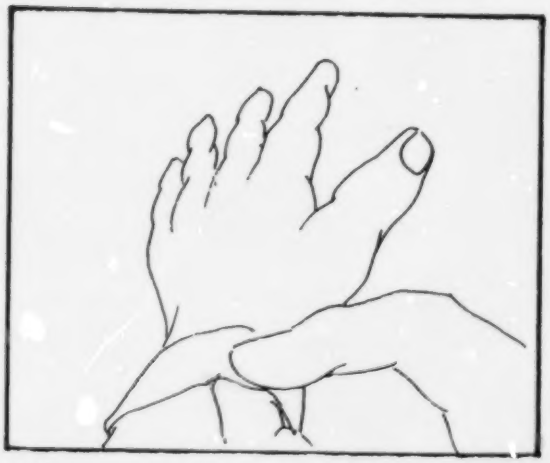
Check Point

Did you wipe a spot on a student's arm?

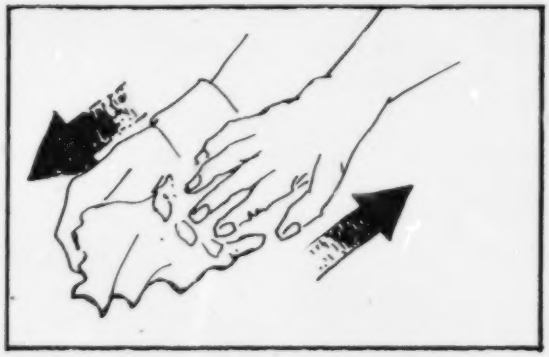
Did you throw the cotton out without dropping the forceps?

Instructional Objective VIII

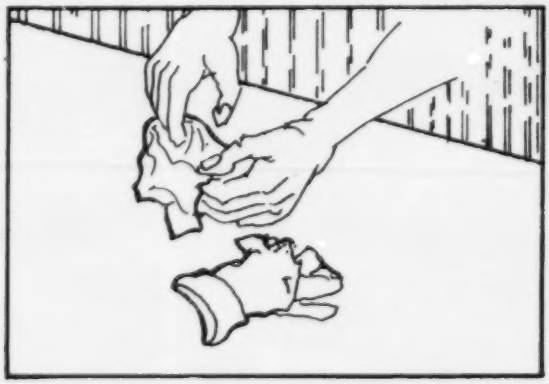
The student will remove the gloves.



STEP 1 – Grab the cuff of one of the gloves.



STEP 2 – Pull down on the cuff, turning the glove inside out, and remove it from your hand.



STEP 3 – Remove the other glove in the same way.

STEP 4 — Lay the gloves back on the muslin.

Check Point

Did you take off the gloves by turning them inside out?

OCCUPATIONAL DESCRIPTIONS

079.374–022 SURGICAL TECHNICIAN (medical ser.) operating-room technician; surgical orderly.

Performs any combination of following tasks before, during, and after operation: Washes, shaves, and sterilizes operative area of patient. Scrubs hands and dons cap, mask, gown, and rubber gloves. Places equipment and supplies in operating room according to SURGEON'S (medical ser.) I directions, and arranges instruments as specified by NURSE, GENERAL DUTY (medical ser.). Aids team to don gowns and gloves. Maintains specified supply of such fluids as plasma, saline, blood, and glucose for use during operation. Adjusts lights and other equipment as directed. Washes and sterilizes used equipment, using germicides, autoclave, and sterilizer. Cleans operating room. Counts sponges, needles, and instruments used during operation. May assist in administering blood, plasma, or other injections and transfusions. May hand SURGEON (medical ser.) I instruments and supplies, hold retractors, and cut sutures, as directed during operation.